



Neurons are specialized cells that transmit information throughout the body. They are the basic units of the nervous system. Each neuron consists of a cell body (soma) containing a nucleus, dendrites that receive signals, and an axon that carries signals to other neurons or muscles. The axon is often covered by a myelin sheath, which speeds up the transmission of electrical impulses. The end of the axon is called the axon terminal, where signals are passed to other cells.

QUESTION

FACTFILE



A synapse is the point of contact between two neurons. It allows electrical signals to be passed from one neuron to another. The axon terminal of the first neuron releases chemicals called neurotransmitters into the synapse. These neurotransmitters bind to receptors on the dendrite of the second neuron, triggering an electrical signal that travels down its axon. This process is essential for the transmission of information in the nervous system.

QUESTION